

ABSTRACT OF THE DISCLOSURE

An improved coordinates input apparatus for designating a particular set of coordinates in three-dimensional space has a substantially box-like frame, a first magnet, a second magnet, and a plurality of magnetoelectric transducers. The first magnet and second magnet are mounted on the frame and disposed so that sides thereof having identical magnetic poles are disposed opposite each other. The second magnet is disposed so as to be tiltable in response to a disposition of forces acting thereupon. The forces include a repulsive force arising between the first magnet and the second magnet and a pressing force exerted on the second magnet. The plurality of magnetoelectric transducers mounted on the frame opposite the second magnet and output voltage values that vary according to a change in a gap between the magnetoelectric transducers and the second magnet, such that the voltage values indicate a set of X,Y coordinates in two-dimensional space.